NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 6/11/2014

Control	**3089-01-010**
Project	**STP 2014(769)**
Highway	**FM 3039**
County	**KAUFMAN**

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an adendum notification which details the changes and the respective proposal pages which were added and/ or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped “This Proposal Issued for Informational Purposes.”

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

04/99

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: STP 2014(769) CONTROL: 3089-01-010

COUNTY: KAUFMAN

LETTING: 06/13/2014

REFERENCE NO: 0611

PROPOSAL ADDENDUMS

_ PROPOSAL COVER

X BID INSERTS (SH. NO.: 2-8, 3-8, 6-8, 7-8)

X GENERAL NOTES (SH. NO.: B)

_ SPEC LIST (SH. NO.:)

_ SPECIAL PROVISIONS:

ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: See changes outlined below.

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

Bid Inserts:

sheet 2-8: Item 310-2008 is deleted.
Item 310-2012 is added.

Sheet 3-8: Item 316-2005 is deleted.
Item 310-2422 is added.

Sheet 6-8: Item 662-2079 is deleted.
Item 662-2099 quantity change.

Sheet 7-8: Item 672-2015 quantity change.

General Notes:

Sheet B: revised description for item 310 and 316 in table 1

Plan set:

The following sheets are replaced:
14, 15, 17

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	104	2001		REMOVING CONC (PAV) DOLLARS and CENTS	SY	76.000	1
	104	2009		REMOVING CONC (RIPRAP) DOLLARS and CENTS	SY	71.000	2
	104	2011		REMOVING CONC (MEDIANS) DOLLARS and CENTS	SY	13.000	3
	104	2017		REMOVING CONC (DRIVEWAYS) DOLLARS and CENTS	SY	378.000	4
	110	2001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	436.000	5
	134	2004		BACKFILL (TY A OR B) DOLLARS and CENTS	STA	201.380	6
	150	2001		BLADING DOLLARS and CENTS	STA	48.330	7
	152	2001		ROAD GRADER WORK (ORD COMP) DOLLARS and CENTS	STA	153.490	8
	161	2002	006	COMPOST MANUF TOPSOIL (BOS) (4") DOLLARS and CENTS	SY	46,527.000	9
	161	2008	006	EROSION CONTROL COMPOST (2") DOLLARS and CENTS	SY	46,527.000	10
	164	2035	002	DRILL SEEDING (PERM) (RURAL) (CLAY) DOLLARS and CENTS	SY	46,527.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	164	2051	002	DRILL SEED (TEMP)(WARM OR COOL) DOLLARS and CENTS	SY	46,527.000	12
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	8,653.000	13
	247	2210	033	FL BS (CMP IN PLC)(TY A GR 2)(5") DOLLARS and CENTS	SY	40,281.000	14
	251	2028		REWORK BS MTL (TY B) (8") (DENS CONT) DOLLARS and CENTS	SY	51,221.000	15
	260	2016	003	LIME (HYD, COM, OR QK(SLURRY)) DOLLARS and CENTS	TON	615.000	16
	260	2027	003	LIME TRT (EXST MATL)(8") DOLLARS and CENTS	SY	51,221.000	17
	275	2001	003	CEMENT DOLLARS and CENTS	TON	342.000	18
	275	2011	003	CEMENT TREAT(EXIST MATL)(8") DOLLARS and CENTS	SY	51,221.000	19
	305	2018		SALV,HAUL & STKPL RCL APH PV (2") DOLLARS and CENTS	SY	24,552.000	20
	305	2024		SALV,HAUL & STKPL RCL ASPH PV (5") DOLLARS and CENTS	SY	47,810.000	21
	310	2012		PRIME COAT & BLOTTER (MC-30 OR AE-P) DOLLARS and CENTS	GAL	10,244.200	22

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	316	2221	016	AGGR(TY-PB GR-3 SAC-B) DOLLARS and CENTS	CY	503.000	23
	316	2223	016	AGGR(TY-PB GR-4 SAC-B) DOLLARS and CENTS	CY	434.000	24
	316	2422	016	ASPH (AC-15P, CRS-2P OR CRS-1P) DOLLARS and CENTS	GAL	34,423.000	25
	351	2007		FLEXIBLE PAVEMENT STRUCTURE REPAIR(11") DOLLARS and CENTS	SY	9,459.780	26
	432	2039		RIPRAP (MOW STRIP)(4 IN) DOLLARS and CENTS	CY	214.000	27
	432	2050		RIPRAP (CONC)(CL B)(5 IN) DOLLARS and CENTS	CY	5.800	28
	459	2009		GABION MATTRESSES (GALV)(6 IN) DOLLARS and CENTS	SY	98.780	29
	462	2004	015	CONC BOX CULV (4 FT X 3 FT) DOLLARS and CENTS	LF	4.000	30
	467	2024		SET (TY I)(S= 3 FT)(HW= 4 FT)(3:1)(C) DOLLARS and CENTS	EA	2.000	31
	467	2031		SET (TY I)(S= 4 FT)(HW= 4 FT)(3:1)(C) DOLLARS and CENTS	EA	4.000	32

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	496	2005		REMOV STR (WINGWALL) DOLLARS and CENTS	EA	6.000	33
	496	2008		REMOV STR (BOX CULVERT) DOLLARS and CENTS	LF	4.000	34
	500	2001	011	MOBILIZATION DOLLARS and CENTS	LS	1.000	35
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN-DLING DOLLARS and CENTS	MO	8.000	36
	530	2001	006	INTERSECTIONS (CONC) DOLLARS and CENTS	EA	1.000	37
	530	2003	006	INTERSECTIONS (SURF TREAT) DOLLARS and CENTS	EA	2.000	38
	530	2007	006	DRIVEWAYS (CONC) DOLLARS and CENTS	EA	7.000	39
	530	2009	006	DRIVEWAYS (SURF TREAT) DOLLARS and CENTS	EA	38.000	40
	530	2014	006	TURNOUTS (ACP) DOLLARS and CENTS	EA	10.000	41
	530	2015	006	TURNOUTS (SURF TREAT) DOLLARS and CENTS	EA	19.000	42

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	540	2001	031	MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	4,000.000	43
	540	2013	031	MTL BEAM GD FEN TRANS (T101) DOLLARS and CENTS	EA	4.000	44
	542	2001		REMOVING METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	3,800.000	45
	542	2002		REMOVING TERMINAL ANCHOR SECTION DOLLARS and CENTS	EA	1.000	46
	544	2003		GUARDRAIL END TREATMENT (REMOVE) DOLLARS and CENTS	EA	7.000	47
	544	2005		GDRAIL END TRT(INST)(WOOD POST)(TY II) DOLLARS and CENTS	EA	18.000	48
	560	2007	001	MAILBOX INSTALL-D (TWW-POST)TY 4 FND-TB DOLLARS and CENTS	EA	3.000	49
	560	2008	001	MAILBOX INSTALL-M (TWW-POST)TY 4 FND-TB DOLLARS and CENTS	EA	2.000	50
	560	2015	001	MAILBOX INSTALL-S(TWW-POST)TY 4 FND-TB DOLLARS and CENTS	EA	29.000	51
	644	2056		RELOCATE SM RD SN SUP & AM TY 10BWG DOLLARS and CENTS	EA	17.000	52

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	658	2241		INSTL DEL ASSM (D-SW)SZ 1(FLX)GF2(BI) DOLLARS and CENTS	EA	53.000	53
	658	2261		INSTL DEL ASSM (D-SW)SZ (TYC)GF1(BI) DOLLARS and CENTS	EA	6.000	54
	658	2316		INSTL OM ASSM (OM-2Z)(FLX)GND DOLLARS and CENTS	EA	16.000	55
	658	2330		INSTL DEL ASSM (D-SW)SZ 1(FLX)GND(BI) DOLLARS and CENTS	EA	46.000	56
	658	2337		INSTL OM ASSM (OM-2Z)(FLX)GND(BI) DOLLARS and CENTS	EA	23.000	57
	658	2375		INSTL OM ASSM (OM-3L) (TWT) GND DOLLARS and CENTS	EA	2.000	58
	658	2376		INSTL OM ASSM (OM-3R) (TWT) GND DOLLARS and CENTS	EA	2.000	59
	662	2067		WK ZN PAV MRK REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	36,480.000	60
	662	2097		WK ZN PAV MRK REMOV (Y) 4" (BRK) DOLLARS and CENTS	LF	2,944.000	61
	662	2099		WK ZN PAV MRK REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	3,739.000	62
	662	2115		WK ZN PAV MRK SHT TERM (TAB) TY Y-2 DOLLARS and CENTS	EA	2,793.000	63

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	2036		REFL PAV MRK TY I (W) 8" (SLD)(100MIL) DOLLARS and CENTS	LF	172.000	64
	666	2042		REFL PAV MRK TY I (W) 12"(SLD)(100MIL) DOLLARS and CENTS	LF	136.000	65
	666	2048		REFL PAV MRK TY I (W) 24"(SLD)(100MIL) DOLLARS and CENTS	LF	110.000	66
	666	2054		REFL PAV MRK TY I (W) (ARROW) (100MIL) DOLLARS and CENTS	EA	16.000	67
	666	2096		REFL PAV MRK TY I (W) (WORD) (100MIL) DOLLARS and CENTS	EA	2.000	68
	672	2012	034	REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	13.000	69
	672	2015	034	REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	536.000	70
	677	2001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	810.000	71
	1122	2001	001	ROCK FILTER DAMS (INSTALL) (TY 1) DOLLARS and CENTS	LF	320.000	72
	1122	2009	001	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	320.000	73

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	1122	2048	001	BIOGRD EROSN CONT LOGS (12" DIA)INSTALL DOLLARS and CENTS	LF	400.000	74
	1122	2056	001	BIODEGRADBLE EROSION CONTROL LOGS REMOV DOLLARS and CENTS	LF	400.000	75
	3267	2011		D-GR HMA(SQ) TY-B PG64-22 DOLLARS and CENTS	TON	2,070.000	76
	3267	2032		D-GR HMA(SQ) TY-C SAC-B PG64-22 DOLLARS and CENTS	TON	2,701.000	77
	5935	2001		TEMPORARY PORTABLE TRAFFIC SIGNAL DOLLARS and CENTS	MO	8.000	78
	8251	2006	005	RE PM W/RET REQ TY I(W)4"(SLD)(100MIL) DOLLARS and CENTS	LF	42,594.000	79
	8251	2015	005	RE PM W/RET REQ TY I(Y)4"(BRK)(100MIL) DOLLARS and CENTS	LF	6,406.000	80
	8251	2018	005	RE PM W/RET REQ TY I(Y)4"(SLD)(100MIL) DOLLARS and CENTS	LF	16,573.000	81

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SW3P RESPONSIBILITIES

TxDOT Area of Responsibility

Responsible for the area defined by the limits of the subject project, except for those areas utilized and operated by the contractor. These areas include, though are not limited to, areas used for field offices, equipment and/or material storage, and concrete or asphalt plants.

TxDOT Operational Responsibility

Responsible for seeking coverage under the TPDES Construction General Permit (CGP) and operating the project within the requirements of the CGP for discharging storm water from the subject project and to notify MS4 permit holders of the intent to discharge storm water.

File a Notice of Termination with TCEQ upon completion of the project when the exposed areas have been stabilized with a vegetative cover of at least 70%.

Contractor Area of Responsibility

Responsible for all areas under their direct operational control which includes, though not limited to, areas used for field offices, equipment and/or material storage, and concrete or asphalt plants. These areas may be located on or off the subject project's R.O.W.

Contractor Operational Responsibility

Responsible for seeking coverage under the TPDES Construction General Permit (CGP) and adhering to all requirements of the permit for discharging storm water from the areas under their operational control. Perform regular inspections, prepare a written report of deficiencies, and repair deficiencies within the time frame set forth by the permit. File a Notice of Termination with TCEQ upon completion of the project when the exposed areas have been stabilized with a vegetative cover of at least 70%.

Responsible under contractual obligations to TxDOT to install, clean, repair, replace or remove sediment and erosion control devices as indicated on TxDOT's Inspection Reports, or as required by daily construction practices, within the time frame set forth by the permit.

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SPECIFICATION DATA

Table 1: Basis of Estimate for Permanent Construction

Item	Description	Thickness	Rate		Quantity
161	Compost Manuf. Topsoil (BOS)	4"	1”	Blended In 4”	46,527 SY
164	Drill Seeding(Perm)(Rural)(Clay)	N/A		See Specs	46,527 SY
166 *	Fertilizer (12-6-6)	N/A	500	Lb/Ac	3 Ton
168	Vegetative Watering (Warm)**	N/A	7	MG/Ac/Day	4,038 MG
204 *	Sprinkling (dust cont)	N/A	500	Mg/Sta	105 Mg
260 260 260	Hydrated Lime (slurry) or Commercial Lime Slurry or Quick Lime (slurry)			4% by wt 4% by wt 4% by wt	615 Ton
275	Cement			2% by wt	342 Ton
	(Bottom Course)				
316	Asph (AC-15P, CRS 2P, or CRS 1P)	N/A	.38	Gal/SY	18,167 Gal
316	Aggr(TY-PB GR-3 SAC-B)	N/A	1	Cy/95 SY	503 Cy
	(Top Course)				
316	Asph (AC-15P, CRS 2P, or CRS 1P)	N/A	.34	Gal/SY	16,256 Gal
316	Aggr (TY-PB GR-4 SAC-B))	N/A	1	Cy/110 SY	434 Cy
310	Prime Coat (MC-30 or AE-P)	N/A	0.20	Gal/SY	10,244 Gal
351	Flexible Pvmt Structure Repair	11”	110	Lb/(SY*In)	9459.78 Sy
3267	Hot Mix Asphalt (Ty B) PG64-22	5”	110	Lbs/SY/In	2070 Ton
3267	Hot Mix Asphalt (Ty C)PG64-22	2”	110	Lbs/SY/In	2701 Ton

* For contractor’s information only
**Adjust for Actual Field Conditions as Necessary.

Note: (1) Existing Base material weight based on 1.50 Ton/CY (dry- compacted)
(2) Asphalt weight based on 110 Lbs/SY/In
(3) Existing Subgrade weight based on 1.35 Ton/CY (dry-compacted)

Table 2: Basis of Estimate for Temporary Erosion Control Items

Item	Description	Rate		Quantity
161	Erosion Control Compost	2”	N/A	46,527 SY
164 164	Drill Seeding (Temp) (**Warm**) or Drill Seeding (Temp) (**Cool**)	See Specifications See Specifications		46,527 SY 46,527 SY
166*	Fertilizer (12-6-6)	500	Lb/Ac	3 Ton
168 168	Vegetative Watering (Warm)** or Vegetative Watering (Cool)**	7 1	MG/Ac/Day MG/Ac/Day	4,038 MG 577 MG

*For Contractor’s Information Only.
**Adjust for Actual Field Conditions/Temperatures as Necessary. See Vegetation Establishment Sheet for estimated daily rates.

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GENERAL

Access will be provided to all business and residences at all times. Where turning radii are limited during phased construction at intersections, provide all weather surfaces such as RAP or base in turning movements to accommodate and to protect the traffic from edge drop-offs. Materials, labor, maintenance and removal for these temporary accesses and radii will not be paid for directly but will be considered subsidiary to the various bid items.

The construction, operation and maintenance of the proposed project will be consistent with the state implementation plan as prepared by the Texas Commission on Environmental Quality.

The disturbed area for this project, as shown on the plans is 9.61 acres. However, the Total Disturbed Area (TDA) will establish the required authorization for storm water discharges. The TDA of this project will be determined by the sum of the disturbed area in all project locations in the contract, and all disturbed area on all Project-Specific Locations (PSL) located in the project limits and/or within 1 mile of the project limits. The department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction site as shown on the plans, according to the TDA of the project. The contractor will obtain any required authorization from the TCEQ for the discharge of storm water from any PSL for construction support activities on or off of the project row according to the TDA of the project. When the TDA for the project exceeds 1 acre, provide a copy of the appropriate application of permit (NOI, or Construction Site Notice) to the engineer, for any PSL located in the project limits or within 1 mile of the project limits. Follow the directives and adhere to all requirements set forth in the TCEQ, Texas Pollution Discharge Elimination System, Construction General Permit (TPDES, CGP).

This project required permits with environmental resources agencies. There is a high probability that an environmentally sensitive area could be encountered on the contractor designated Project-Specific Locations (PSL) for this project (haul roads, equipment staging areas, borrow pits, disposal sites, field offices, storage areas, parking areas, etc.). Item 7.19.F, “Project-Specific Locations”, will provide a listing of regulatory agencies that may need to be contacted regarding this project.

Prior to contract letting, bidders may request electronic earthwork information by email.
Email: Brenda.Callaway@txdot.gov or Hal.Stanford@txdot.gov
Earthwork files will be provided by email.

Bidders may also obtain a free computer diskette that contains earthwork information from the engineer’s office. Paper copies of cross-sections may be produced by using the provided free diskette at the bidders’ expense and at copying companies. This data is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the enclosed data with appropriate plans, specifications and estimate for the project(s).

Install traffic marking signs prior to sealcoat application and remove within three days after placement of traffic markings.

Leave all right of way areas undisturbed until actual construction is to be performed in said areas.

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Use established industry and utility safety practices to erect poles, luminaries, signs or structures near any overhead or underground utility. Consult with the appropriate utility company prior to beginning such work.

Underground utilities owned by the Texas Department of Transportation may be present within the Right-Of-Way on this project. For signal, illumination, surveillance, and communications & control maintained by TxDOT, call the TxDOT Traffic Signal Office (214-320-6682) for locates a minimum of 48 hours in advance of excavation. For irrigation systems, call TxDOT Maintenance Landscape Office (214-320-6205) for locates a minimum of 48 hours in advance of excavation. If city or town owned irrigation facilities are present, call the appropriate department of the local city or town a minimum of 48 hours in advance of excavation. The Contractor is liable for all damages incurred to the above mentioned utilities when working without having the utilities located prior to excavation.

For the project to be deemed complete, permanently stabilize all unpaved disturbed areas of the project with a vegetative cover at a minimum of 70% density for the control of erosion.

Repair or replace any structures and utilities that might have been damaged by negligence or a failure to have utility locates performed.

Meet weekly with the engineer to notify him or her of planned work for the upcoming week.

Submit pre-letting questions, by email only, to the attention of Area Engineer or Assistant Area Engineer.
Email: Brenda.Callaway@txdot.gov or Hal.Stanford@txdot.gov
Answers will be provided by email.

An electronic file containing pre-letting questions and TxDOT answers will be provided upon email request.

Material On Hand (MOH) will not be used in calculating partial payments for Mobilization.

Provide the Engineer with a copy of all DBE subcontractor agreements prior to commencing work.

Item 8:
This Project will be a Five-Day Workweek in accordance with Article 8.3.A.1.

Item 104:
Sawing of concrete is not paid for directly, but is considered subsidiary to this item.

Item 110:
Scarify and loosen the excavated areas, unpaved surface areas, except rock, to a depth of at least 8 inches and compact in accordance with the specifications.

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Perform the following test by an approved laboratory on excavated soils when used for roadway embankment: 1- Tex-145-E (Sulfate Content in Soils), 2- Tex-106-E (Plasticity Index). Provide the above-mentioned test results on sources outside of the right of way at no expense to the department. Contact the engineer for a list of approved laboratories. Notify the engineer 72 hours before sampling and testing material. Perform split-sample verification testing with the engineer when directed. The engineer will sample and test soils produced by the construction project for specification requirements or material sources specified in the plans.

Excavated shale is not an acceptable material for embankment.

Item 134:
Start backfilling pavement edges as soon as possible after the surface course is started.

Backfill and compact the pavement edges to produce a smooth surface adjacent to the pavement with no vertical edges.

Use Type “A” or “B” material to backfill pavement edges as shown in plans. Type “A” or “B” material shall consist of suitable material that when compacted will support the pavement edge. Rap is considered suitable Type “A” or “B” material.

Blade the existing vegetation into a neat wind-row prior to overlay. After placing Ty A or Ty B backfill and placing seeding, the material from the wind-row shall be replaced on the completed slopes. Emulsion shall be placed at a 50/50 solution of water to emulsion over disturbed area. Emulsion rate=0.15 Gal/SY residual. This work, materials and equipment shall be subsidiary to Item 134.

Item 150, 152:
Remove the existing roadway small signs, delineators and object markers as shown on the plans, or as directed, during construction within the right of way. Small sign, delineator and object marker removals are subsidiary to this Item.

Probe or expose existing utilities in the close vicinity of the project to determine their exact location prior to any road grader work. All cost involved will not be paid for directly, but will be subsidiary to the related bid items.

Perform road grader work for widening and preparing sub-grade, including driveways, slopes, and grading ditches as necessary to improve drainage.

Excavation and embankment for driveways and intersections will not be paid for directly, but will be considered subsidiary to these items.

Item 161:
Provide tickets representing quantity of compost delivered to site.

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Item 247:
Compact to at least 98% of the maximum density determined by Tex-113-E. Construct uniform layer thickness of 12 inches, or less with the required density and moisture content. Triaxial class is required for Grade 1 and 2. Minimum PI is equal to three (3) for all grades.

The use of contractor-owned recycled crushed concrete is allowed provided it meets the Departmental Material Specification, DMS-11000 requirements.

Item 251:
Windrowing base material on ROW will be allowed. The use of Reclaimable Asphalt Material will be allowed. Any excess Reclaimable Asphalt Material will be stockpiled.

Stockpile the excess Rap and base material at the Kaufman Area Office Maintenance Yard located 2750 South Washington (SH 34) Kaufman , TX 75142. Place the excess Rap and base material in stockpiles that meets the dimensions and requirements designated by the engineer. Stockpile the excess Rap and base material will not be paid for directly, but shall be considered subsidiary to this item.

Stockpile materials in uniform piles up to 15 feet in height unless otherwise instructed. Furnish adequate equipment at the stockpile to keep and leave the materials in a neat and orderly manner.

The maximum amount of RAP allowed for use in this item will be 50% by volume.

Item 260:
Furnish and distribute MS-2 smoothly and evenly at the rate of 0.20 gallons per square yard to cure lime, as directed.

Item 301:
Provide liquid antistripping agents unless otherwise directed. Provide manufacturer's instruction for liquid antistripping agent.

Add the minimum percentage determined by the manufacturer and try subsequent trials at 0.25% increments, unless otherwise instructed by the manufacturer.

Items 305:
Saw existing asphalt along neat lines where portions are to be left in place temporarily or permanently. Sawing is not paid for directly, but is subsidiary to this item.

Separate the asphalt pavement from the base material. Stockpile any excess asphalt pavement (RAP not used in the Reworked Base Material) at the Kaufman Area Office Maintenance Yard located 2750 South Washington (SH 34) Kaufman , TX 75142. Place the asphalt pavement material in a stockpile that meets the dimensions and requirements designated by the engineer.

Stockpile materials in uniform piles up to 15 feet in height unless otherwise instructed. Furnish adequate equipment at the stockpile to keep and leave the materials in a neat and orderly manner.

Properly dispose of unsalvageable material at your own expense.

Slope longitudinal faces greater than 1 ¼" to a minimum of 1:1 slope at the end of the work period if traffic is able to traverse the joint. Slope transverse tapers to a minimum of 36:1 at the end of the workday. Remove the taper prior to continuing the milling.

For open shoulder sections, plane the asphalt so the flow of water is not impeded at the shoulder edge or across the surface. Added planing up to three feet in width outside the lines and grades of the plans, necessary to provide proper drainage, will be subsidiary to the bid item.

Item 310:
Allow the prime coat to penetrate the exposed base course. Remove any excess prime coat from the roadway after priming operations have been completed. This work shall be done by a method approved by the engineer.

Item 316:
In addition to the temperature requirements of this Item, AC Asphalts used in Surface Treatments and Sealcoats must be placed between May 15 and August 31. Emulsions may be substituted for AC Asphalts outside this timeframe only with the approval of the Engineer.

Item 320:
The use of windrow pick-up equipment is allowed except on the first course of roadway material placed over the subgrade.

Item 351:
Design for a target Laboratory-molded density of 97.0% when using the TGC (Tex-204-F, Part I).

Use aggregate that meets the Surface Aggregate Classification (SAC) requirement of Class B.
Provide the engineer the opportunity to witness all mixture design tests. The engineer may require a retest if not given the opportunity to witness.
Dilution of tack is not allowed.

Provide PG binder 64-22 in Type B mixture.
Saw existing asphalt along neat lines where portions are to be left in place temporarily or permanently. Sawing is not paid for directly, but is subsidiary to this item.

The material to be utilized for repair of base on this project shall be hot mix asphaltic concrete pavement (HMACP) Type B(64-22), which shall be used for filling the void created after removing the existing pavement structure and for any over excavation. A road widener will be

the only method allowed for placing the hot mix asphaltic concrete pavement (HMACP) Type B(64-22).

The surface of the pavement after compaction shall be smooth and true to the established line, grade and cross section including existing super-elevation and super-elevation transitions. When tested with a 10.0 foot straight edge placed parallel to the centerline of the roadway or tested by other equivalent means, the maximum deviation shall not exceed 1/8 inch 10.00 feet. Unless otherwise approved by the engineer.

Separate the asphalt pavement from the base material. Removal of the asphalt pavement will be in accordance with Item 305 “Salvaging, Hauling, and Stockpiling Reclaimable Asphalt Pavement”.

The existing base material shall be removed at a depth shown in the plans. Milling will be the only method allowed for removing the existing base material. Milling will not be paid for directly, but shall be considered subsidiary to this item.

Upon completion of the work each day, the contractor shall clear and remove all removed pavement, discarded materials and debris of every kind which has been generated by his work and shall leave the entire project in a smooth and neat condition.

Shape to the lines and grades shown on the plans and blade the roadway side-slopes to a smooth surface. The Department retains ownership of the excess Rap and base material. Properly dispose of unsalvageable material at your own expense.

Stockpile the excess Rap and base material at the Kaufman Area Office Maintenance Yard located 2750 South Washington (SH 34) Kaufman , TX 75142. Place the excess Rap and base material in stockpiles that meets the dimensions and requirements designated by the engineer. Stockpile the excess Rap and base material will not be paid for directly, but shall be considered subsidiary to this item.

Stockpile materials in uniform piles up to 15 feet in height unless otherwise instructed. Furnish adequate equipment at the stockpile to keep and leave the materials in a neat and orderly manner.

Existing subgrade material removed from the roadway shall not be reused under this item and shall become the property of the contractor.
Properly dispose of unsalvageable material at your own expense.

Item 400:

Structural Excavation is not paid for directly but is considered subsidiary to pertinent Items. When placing concrete storm drain pipe on slopes of greater than 10 percent, provide cement stabilized backfill to a depth shown on the plans. The aggregate shall conform to the requirements of Article 421.2.E.2.

Item 420:

Apply an ordinary surface finish to all concrete surfaces within 30 days after form removal.

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Item 421:

Furnish mix designs to the Engineer in a format compatible to the latest version of the Department's Construction Management System (Site Manager). Mix Design templates will be provided by the Engineer.

Provide sulfate resistant concrete for box culverts and all drilled shafts. At the contractor's option, a sulfate resistant high performance concrete may be used; however, high performance concrete is not considered sulfate resistant concrete when Class C fly ash and Type I cement is used in the mix design.

Strength evaluation using maturity testing, Tex-426-A, may be used for all concrete elements except drilled shafts.

Provide a digital hydraulic compression testing Machine and accessories. The machine shall have a minimum testing range of 2500 pounds force to 250,000 pounds force with a hydraulic switching valve to allow for rapid advancing, hold, controlled advancing and rapid retracting. The machine shall have a load cell to measure compressive forces within the testing range and shall be calibrated and verified in accordance with ASTM latest version. The Machine can meet or exceed the following when approved by the Engineer:

ELE International ACCU-TEK250 Digital Compression Tester including accessories or Forney F-250EX Standard Compression Machine including accessories or TxDOT approved equal.

Air-entrain all cast-in-place concrete except for Class "B" and concrete used in drilled shafts. For structural concrete, if the air content is more than 1.5% below the required air, follow manufacturer recommendations to add the necessary approved air bags to increase the air content at the job site. Limit the adding of air bags in the field to one trial. For structural concrete in abutments, bents and columns do not reject the load of concrete due to low air content; accept concrete based on strength tests. Structural concrete in approach slabs, slabs, sidewalks, medians and rails shall meet the provisions of the specification. Precast structural members do not require air entrainment.

Item 502:

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Provide written proposed lane closure information by 1:00 pm on the business day prior to the proposed closures. Do not close lanes when this requirement is not met.

When excavation is required next to a pavement lane carrying traffic and the widening is not completed by the end of the work day, backfill against the edge of the pavement with at least a 3:1 slope using an acceptable material to support vehicular traffic. Carefully remove and

dispose of this material when work resumes. Backfilling pavement edges, and the materials required for the work will be subsidiary to this item.

Place barricades and signs in locations that do not obstruct the sight distance of drivers entering the highway from driveways or side streets.

Do not commence work on the road before sunrise. Do not operate or park any equipment/machinery closer than 30 feet from the traveled roadway after sunset unless authorized by the engineer.

When moving unlicensed equipment on or across any pavement or public highways, protect the pavement from all damage using an acceptable method.

Provide 2 shadow vehicles equipped with truck mounted attenuators as shown on the traffic control plan.

Limit lane closures to the hours between 9:00 am and 3:30 pm. Work in other areas of the project is not restricted to this time frame.

Perform the various stages of work in such a manner that the public can travel through the work zones in safety and with a minimum of inconvenience. It is required that this project be constructed under traffic.

Close only one-lane of traffic at any one time. Make every effort to minimize drop-off conditions during all operations. Pull up the shoulder material as soon as possible to eliminate drop-offs greater than two (2) inches in depth. Place vertical panels and shoulder drop-off signs (CW8-9A) at 200' spacing where operations create drop-offs greater than (2) inches in depth or as directed by the engineer.

Perform work in such a manner that the base is in place and the roadway open for safe passage of traffic at the end of each workday. Immediately following base restoration operations, furnish, place and maintain vertical panels along each edge in accordance with the Texas Manual on Uniform Traffic Control Devices.

Place work zone pavement markings (tabs) immediately following completion of reworking base and base repair operations. Place work zone pavement markings (removable) immediately following completion of the surface operations and prior to final striping.

Utilize flaggers equipped with two-way radios and stop/slow paddles to handle traffic through the work areas. Pilot cars will also be required to guide traffic through the work areas.

Prior to the beginning of construction, all currently striped no-passing zones should be signed with the DO NOT PASS sign (R4-1) and PASS WITH CARE sign (R4-2) placed at the beginning and end of each zone for each direction of travel except as otherwise provided herein. Signs marking these individual no-passing zones need not be covered prior to construction if the signs supplement the existing pavement markings.

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There are 12 set-ups in the WBL and 12 set-ups in the EBL between stations 56+00 and station 213+08.76 utilizing temporary portable traffic signals. All pavement markings used during these set-ups will be subsidiary to Item 5935-2001, Temp Portable Traffic Signal.

Standard Sheet TCP(2-8)-12 has been modified.

Item 530:
Provide Class "HES" concrete for concrete intersections and driveways listed or shown on the plans.

Item 540:
Furnish one type of post throughout the project except as specifically noted in the plans.

Item 560:
Make mailboxes accessible for delivery of mail at all times.

Relocate mailbox assemblies during construction and leave in place until new assemblies are in-place. This work will not be paid for directly, but will be considered subsidiary to this bid item. Replace any mailboxes damaged by the contractor's operations with approved units at the same size and quantity as the damaged unit, at the contractor's expense. Install delineation on mailbox supports. Delineation of mailbox supports shall be in accordance with MAIL BOX standard sheet in plans.

Include new mailboxes in the price of mailbox assemblies. The mailboxes will be stenciled with 3 ½" reflective box numbers.

Item 585:
Use Surface Test Type A on all intersections and driveways. Use Surface Test Type B pay adjustment schedule 3 on the travel lanes.

Items 644:
Prior to taking elevations to determine lengths for fabrication of sign posts and/or sign support towers, obtain verification of all proposed locations.

Provide field galvanizing and metallizing equipment, as per Item 445, at all times and make repairs to galvanized surfaces according to the above specification item at intervals as directed.

All sign mounts shall have a clamp base system for all small roadside sign assemblies.

After sign supports with signs attached have been erected, wash individual units requiring cleaning with an approved cleaning solution to remove all grease, oil, dirt, smears, streaks, and other foreign particles.

Torque the anchor bolts for only the Exit Gore signs to 60 foot-pounds.

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Affix a sign identification decal to back of all signs in accordance with Item 643.

Item 1122:

Take all practicable precautions to prevent debris from being discharged into the Waters of Texas or a designated wetland. Install Best Management Practices before demolition begins and maintain them during the demolition. Remove any debris or construction material that escapes containment devices and are discharged into the restricted areas, before the next rain event or within 24 hours of the discharge.

If temporary construction stream crossings are allowed under a Nationwide Permit, submit in writing for approval the type and location of each temporary stream crossing. Use temporary bridges, timber mats, or other structurally sound and non-eroding material for temporary stream crossings. A temporary culvert crossing will consist of storm sewer pipes and 4- to 8-inch nominal size rock. Temporary stream crossings must not cause more than minimal changes to the hydraulic flow characteristics of the stream, increase flooding, or cause more than minimal degradation of water quality. Remove the temporary stream crossings in their entirety and return the affected areas to their pre-existing elevation. All work and materials use for temporary construction stream crossings will not be paid for directly but are subsidiary to pertinent Items.

Provide SW3P Signs. Obtain from the Engineer a copy of the project's completed TPDES Storm Water Program Construction Site Notice and signed Contractor Certification Statement. Laminate the sheets and bond with adhesive to 36" X 36" plywood sign blanks. Ensure the sheets remain dry. Apply Type C Blue reflective sheeting as the background and add the text "SW3P" in 5" white lettering, centered at the top. Attach the signs to approved temporary mounts and locate at each of the project limits just inside the right of way line at a readable height or as directed by the Engineer. If the sign cannot be placed outside the clear zone, it must adhere to the TMUTCD. SW3P signs, maintenance, and repostings (for replacement or as needed to ensure readability) will be subsidiary to Item 502.

Item 3267:

Tack Coat is required.
Design for a target Laboratory-molded density of 97.0% when using the TGC (Tex-204-F, part I).

Use aggregate that meets the Surface Aggregate Classification (SAC) requirement of Class B.

Provide the engineer the opportunity to witness all mixture design tests. The engineer may require a retest if not given the opportunity to witness.

Dilution of tack is not allowed.

Provide PG binder 64-22 in Type B mixture.

Provide PG binder 64-22 in Type C mixture.